Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-17. (Canceled).

- 18. (Currently Amended) The method as recited in Claim [[17]] <u>28</u>, wherein each of the data areas is uniquely allocated to a corresponding monitored user unit.
- 19. (Previously Presented) The method as recited in Claim 18, wherein the corresponding monitored user unit does not have access to the uniquely allocated data area.
- 20. (Currently Amended) The method as recited in Claim [[17]] 18, wherein the data areas are distributed over at least two memory units.
- 21. (Currently Amended) The method as recited in Claim [[17]] 18, wherein at least a part of the data areas is provided simultaneously in each memory unit.
 - 22. (Canceled).
- 23. (Currently Amended) The method as recited in Claim [[22]] 18, wherein the outcome data include a fault information.
- 24. (Currently Amended) The method as recited in Claim [[22]] 18, wherein the outcome data include information on responsive fault measures.
- 25. (Currently Amended) The method as recited in Claim [[22]] 18, wherein the outcome data are transmitted via the one bus system to a communications controller of the of the monitored user unit.

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- 26. (Currently Amended) The method as recited in Claim [[22]] 18, wherein the outcome data are filed in the data areas.
 - 27. (Canceled).

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28. (Currently Amended) [[The]] A method as recited in Claim 22 for monitoring a distributed system having a plurality of user units that are connected by one bus system, comprising:

providing at least a selected number of the user units as monitoring user units;

filing process data of at least one monitored user unit in data areas of memory units of
the bus system, wherein the monitoring user units have access to the data areas of the
memory units; and

evaluating the process data by the monitoring user units; wherein:

each monitoring user unit generates outcome data as a function of the evaluation of the process data of the at least one monitored user unit; and

the outcome data are allocated to each monitored user unit and filed in the data areas allocated to the corresponding monitored user units.

- 29. (Currently Amended) The method as recited in Claim [[17]] 18, wherein, as a part of the monitoring, a weighted fault determination is made, and wherein the weighted fault determination is made based on an n of m outcome data, m being the number of monitoring user units for a selected monitored user unit, m > 2, and n > m/2.
- 30. (Currently Amended) A monitoring system An arrangement for monitoring a distributed system having a plurality of users that are connected by one bus system, at least a selected number of the users being provided as monitoring [[users]] user units, comprising:

<u>a</u> first <u>component</u> arrangement for filing process data of at least one monitored user <u>unit</u> in data areas of memory units of the bus system; [[and]]

<u>a</u> second <u>component</u> <u>arrangement</u> provided in each of the monitoring [[users]] <u>user</u> <u>units</u>, wherein the second <u>component</u> <u>arrangement</u> of each monitoring user <u>unit</u> has access to the data areas of the memory units of the bus system, and wherein the second <u>component</u> <u>arrangement</u> of each monitoring user <u>unit</u> evaluates the process data of the at least one monitored user <u>unit</u>;

wherein:

each monitoring user unit generates outcome data as a function of the evaluation of the process data of the at least one monitored user unit; and

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the outcome data are allocated to each monitored user unit and filed in the data areas allocated to the corresponding monitored user units.

- 31. (Currently Amended) The <u>device monitoring system</u> as recited in Claim 30, wherein each of the memory units is allocated to a corresponding monitoring user <u>unit</u>.
 - 32. (Currently Amended) A distributed system, comprising:
 - a bus system;
- a plurality of [[users]] <u>units</u> that are connected by the bus system, wherein at least a selected number of the [[users]] <u>user units</u> are provided as monitoring [[users]] <u>units</u>; and

<u>a</u> first <u>component</u> arrangement for filing process data of at least one monitored user <u>unit</u> in data areas of memory units of the bus system;

wherein each of the monitoring [[users]] <u>units</u> has a second <u>component</u> arrangement, and wherein the second <u>component</u> arrangement of each monitoring user <u>unit</u> has access to the data areas of the memory units of the bus system, and wherein the second <u>component</u> arrangement of each monitoring user <u>unit</u> evaluates the process data of the at least one monitored user:

wherein:

each monitoring user unit generates outcome data as a function of the
evaluation of the process data of the at least one monitored user unit; and
the outcome data are allocated to each monitored user unit and filed in the data
areas allocated to the corresponding monitored user units.

- 33. (New) The method as recited in Claim 28, wherein the outcome data include a fault information.
- 34. (New) The method as recited in Claim 28, wherein the outcome data include information on responsive fault measures.
- 35. (New) The method as recited in Claim 28, wherein the outcome data are transmitted via the one bus system to a communications controller of the of the monitored user unit.

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- 36. (New) The method as recited in Claim 28, wherein the outcome data are filed in the data areas.
- 37. (New) The method as recited in Claim 28, wherein the data areas are distributed over at least two memory units.
- 38. (New) The method as recited in Claim 28, wherein at least a part of the data areas is provided simultaneously in each memory unit.
- 39. (New) The method as recited in Claim 28, wherein, as a part of the monitoring, a weighted fault determination is made, and wherein the weighted fault determination is made based on an n of m outcome data, m being the number of monitoring user units for a selected monitored user unit, m > 2, and n > m/2.

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